

Claims

1. A side brush, which is adapted to be mounted on the body of a sweeping machine, for use as a brush rotatable (w) about a rotation axis (y), and which comprises a base element (1) and a plurality of individual bristle segments (2) detachably mountable thereto, having bristles (2a') included therein integrated for a solid unit with a frame member (2a'') joining the same, and the base element (1) comprising a substantially planar disc assembly which is provided integrally with a coupling system for coupling the bristle segments (2) therewith on a snap fit principle, **characterized** in that the coupling system is implemented by means of elongated channels (U) disposed in the base element (1) in a substantially radial direction (R) and extending through the base element, opening all the way to the edge thereof, which enable coupling the bristle segments (2) immovably to the engagement with the body of a sweeping machine by means of the base element (1) with fasteners (3) interconnecting the same, such as by effecting the attachment in a screw clamping or suchlike fashion.

2. A side brush as set forth in claim 1, **characterized** in that the bristle segments (2) are adapted to be immovably stationary in a plane (x) of the base element (1) by means of interlocking snap fit arrangements between the frame members (2a'') thereof and the base element (1), the channels (U) present in the base element (1) being provided with a necking (U1) formed in a radial direction at the base element's (1) outer edge, whereby the bristle segment (2) to be mounted on the base element (1) firstly in a lateral direction by way of an open end of the channel (U) and secondly from above, is clampable through the intermediary of a mating surface

arrangement (V) present in its frame member (2a") whose length (L) is most preferably at least equal to that of the channel (U).

5 3. A side brush as set forth in claim 1 or 2, **characterized** in that the substantially elongated and rectilinear bristle segment (2) has its frame member (2a") composed of a fusion produced from the ends of the bristles (2a').

10 4. A side brush as set forth in claim 1 or 2, **characterized** in that the substantially elongated and rectilinear bristle segment (2) has its frame member (2a") made of moulded plastics, in which the bristle segment's bristles (2a') are anchored by one end thereof during its solidification process.

15 5. A side brush as set forth in claim 1 or 2, **characterized** in that the substantially elongated and rectilinear bristle segment (2) has its frame member (2a") manufactured from a chemically solidifying two-component material, such as polyprourethane, epoxy or the like.

20 6. A side brush as set forth in any of the preceding claims 1-5, **characterized** in that the side brush has its base element (1) manufactured from a substantially rigid-structured plastic, metal, ceramic, composite material and/or the like.

25 7. A side brush as set forth in any of the preceding claims 1-6, **characterized** in that the bristle segment (2) has its bristles (2a') arranged at an angle (a) relative to the frame member (2a"), deviating substantially from a perpendicular direction.

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8. A side brush as set forth in any of the preceding claims 1-7, **characterized** in that one or more bristle segments (2) of the side brush are provided with bristles (2a') manufactured from a 5 plastic-based material, such as polypropylene, polyamide or the like.

9. A side brush as set forth in claim 8, **characterized** in that the bristle segment (2) has its 10 bristles (2a') composed of at least two types of plastic bristles cross-sectionally substantially different from each other.

10. A side brush as set forth in any of the preceding claims 1-9, **characterized** in that one or 15 more bristle segments (2) of the side brush are provided with bristles manufactured from a metal material, such as steel.